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ILLEGIB

Subject: Conference with [redacted] STAT
on May 15 and 16, 1962

Regarding: The final specifications for 12 70-mm twin-path light tables

The following items of work were agreed upon:

1) Increase the lit surface of light table to a minimum of 9 inches.

2) APEL reel spindles, rackets, and cranks to be Government Furnished Equipment supplied by the customer.

3) Segmented nylon guide rollers to be Government Furnished Equipment supplied by the customer.

4) Microscope stand and arm to slide over table manually to have a minimum travel of 5 inches each side of center.

5) Bausch & Lomb part number 31-26-95 stand and rotatable arm to be Government Furnished Equipment supplied by the customer.

6) Contract to state that unit price shall be [redacted] or less. STAT

7) Engineering and manufacturing costs to be pro-rated over 12 units.

[redacted] STAT

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ORPORATION - 70mm Twin Path
Table - Assorted Drawings

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Stereo Proj. Experiment
Collect Stereo Pictures
70 mm Viewer

TWA #150 1570 PM

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(1) [redacted] would like us to provide him with one dwg positive and one dwg negative

STAT (2) [redacted] would like to have a set of segmented nylon rollers and Apel arms for the ~~prototype~~ table (June 8)

STAT STAT [redacted] Fall

[redacted]

Lead of next week

~~For Task (Statement of Work)~~

(1) Increase lit surface of table to min of 9"
(2) Apel arms to be GFE
(3) Segmented nylon rollers to be GFE
(4) Microscope, stand and arm are to slide over the table manually; Min travel 5" each side of center
(5) B&L 31-26-95 Stand and Rotatable arm to be GFE.
(6) Contract to state unit price to be [redacted] or less STAT
(7) Engineering Development and Manufacturing cost to be prorated over 12 units.

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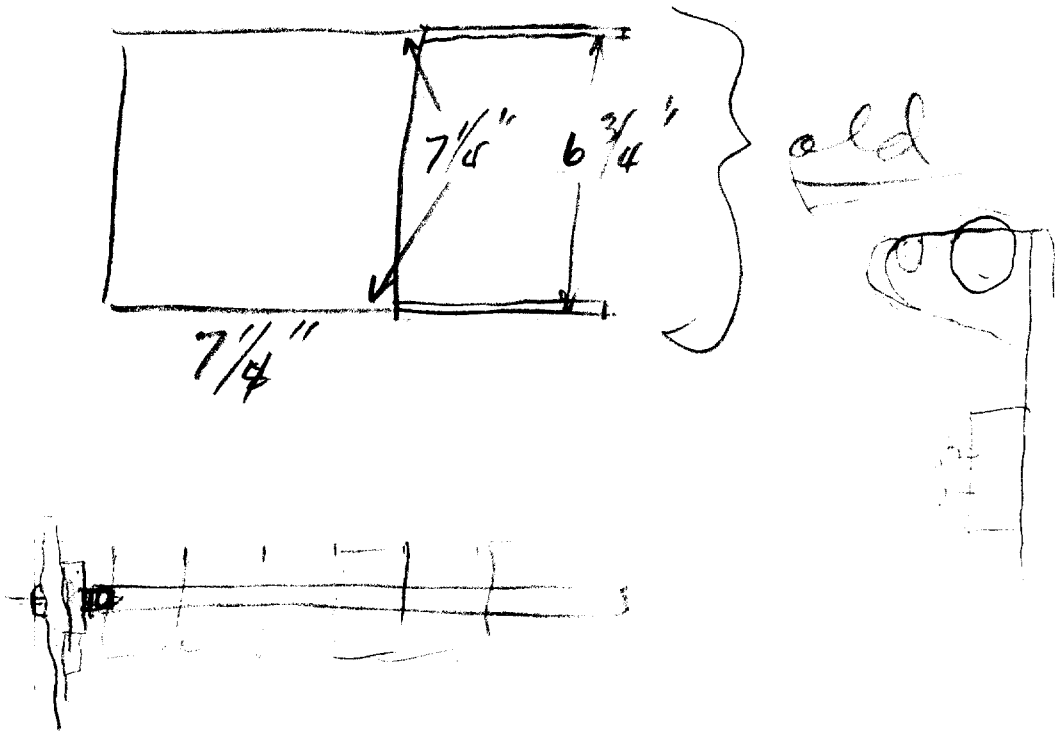

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1. Increase the lighted surface of the table to approx. 11 inches (minimum 9½")

2. Change Contract to CPFF ??

3. G.F.E. - Apel brackets, Segmented roller (2 sets) and B&L Stand arm and Microscope post

4. Engineering, Development and Manufacturing costs to be prorated over 12 instruments.

STAT

STAT

Light Table

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1. Crank on Item 2
2. 360° Rotatable Arm
3. Split Bearing Brake
4. Eliminate Hold-down Straps
5. Variable Light Intensity
6. Segmented rollers
7. Dekameta[illegible] of 10½" units
8. Provision for add'l Film Paths

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVAL

DESCRIPTION

MODEL 45 LIGHT TABLE IS ADAPTABLE TO B&L (OR EQUIV.) STEREO-ZOOM MICROSCOPE, FUNCTIONING AS A UNIT IN PHOTO-INTERPRETIVE VIEWING OF TWIN PATHS OF 70MM AERIAL FILM.

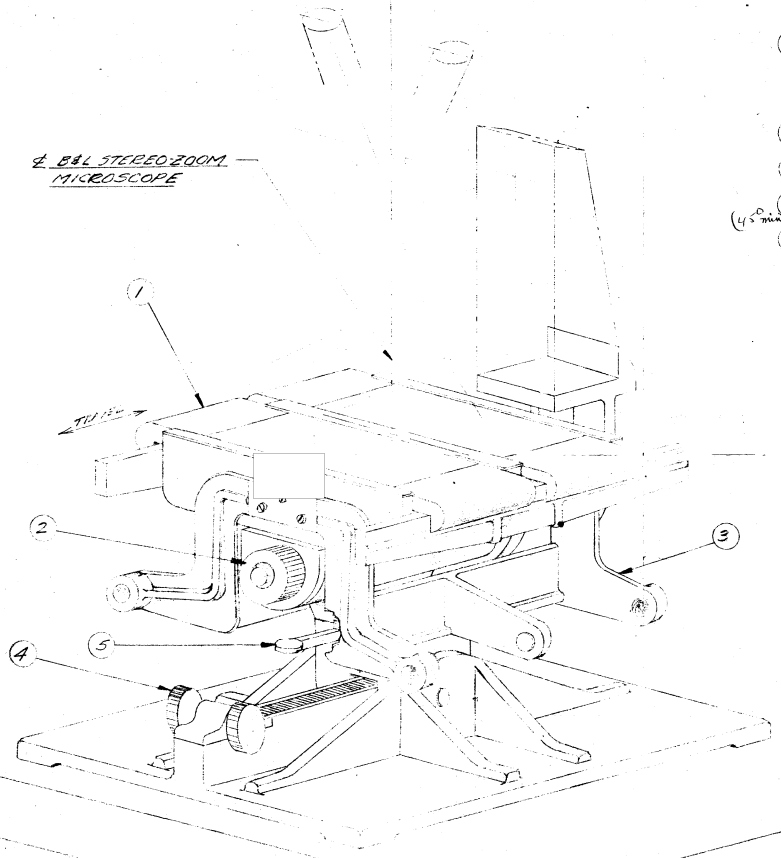
SPECIFICATIONS

1. - LIGHT BOX MOVES TRANSVERSELY 1½ INCHES EITHER SIDE OF (20/in Steam) MICROSCOPE CENTERLINE. - INDEPENDENTLY LIT FLUORESCENT LIGHT SOURCES ARE PROVIDED FOR EACH FILM PATH. - FILM HOLD-DOWN STRIPS ARE PROVIDED FOR EACH FILM PATH. - POLISHED FILM APPROACH SLIDES OR GUIDE ROLLS ARE PROVIDED.
2. - TRAVERSE FEED KNOB MOVES LIGHT BOX ⅛ INCH PER TURN WITH MAXIMUM TRAVEL OF 3 INCHES.
3. - FILM SPOOL BRACKETS, EQUIPPED WITH FRICTION HOLD-BACKS, TRAVEL WITH LIGHT BOX.
4. - TILT CONTROL KNOBS WITH INTEGRAL FRICTION BRAKING PROVIDE UP TO 30° INCLINATION OF LIGHT BOX TOWARD OPERATOR. (45° max)
5. - ROTATION LOCK PERMITS LIGHT BOX, SPOOL & MICROSCOPE ROTATION 90° IN EITHER DIRECTION FROM POSITION SHOWN WITH BASE AND TILT CONTROL REMAINING STATIONARY. - THIS FEATURE PERMITS LONGITUDINAL OR TRANSVERSE FILM VIEWING IN EITHER FLAT OR INCLINED PLANES.

DIMENSIONS

OVERALL DIMENSIONS OF COMPLETE LIGHT TABLE (WITHOUT MICROSCOPE):-

WIDTH ——— 10 INCHES
DEPTH ——— 12 INCHES
HEIGHT ——— 10⅛ INCHES



STAT

DWG. NO. PASK-1308
REV.

G2 REQD.	G1 REQD.	ITEM	PART NO.	DESCRIPTION	MATERIAL	MATL. SPEC.	UNIT WT.

LIST OF MATERIAL

STAT

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC	FRACTION	DECIMAL
UP TO 6	± 1/64	± .005
6 TO 24	± 1/32	± .010
ABOVE 24	± 1/16	± .015
ANGULAR DIMENSIONS: ± 1/2°		

DRA | DATE 10-18-61
CHECKED:
APPROVED:
ISSUED:
MATERIAL:
SURFACE QUALITY UNLESS OTHERWISE SPECIFIED
FINISH:
HEAT TREAT:

NAME: MODEL 45 MULTI-MOTION TWIN 70mm LIGHT TABLE

SCALE: HALF | WT. CALC. | ACT.

SIZE C | DWG. NO. PASK-1308

SHEET | OF | SHEETS

REMOVE ALL BURRS & SHARP EDGES
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING UNLESS OTHERWISE SPECIFIED.

NEXT ASSY.	USED ON	NEXT ASSY.	FINAL ASSY.
APPLICATION		QTY. REQD.	

A. T. J. CO. 1-61

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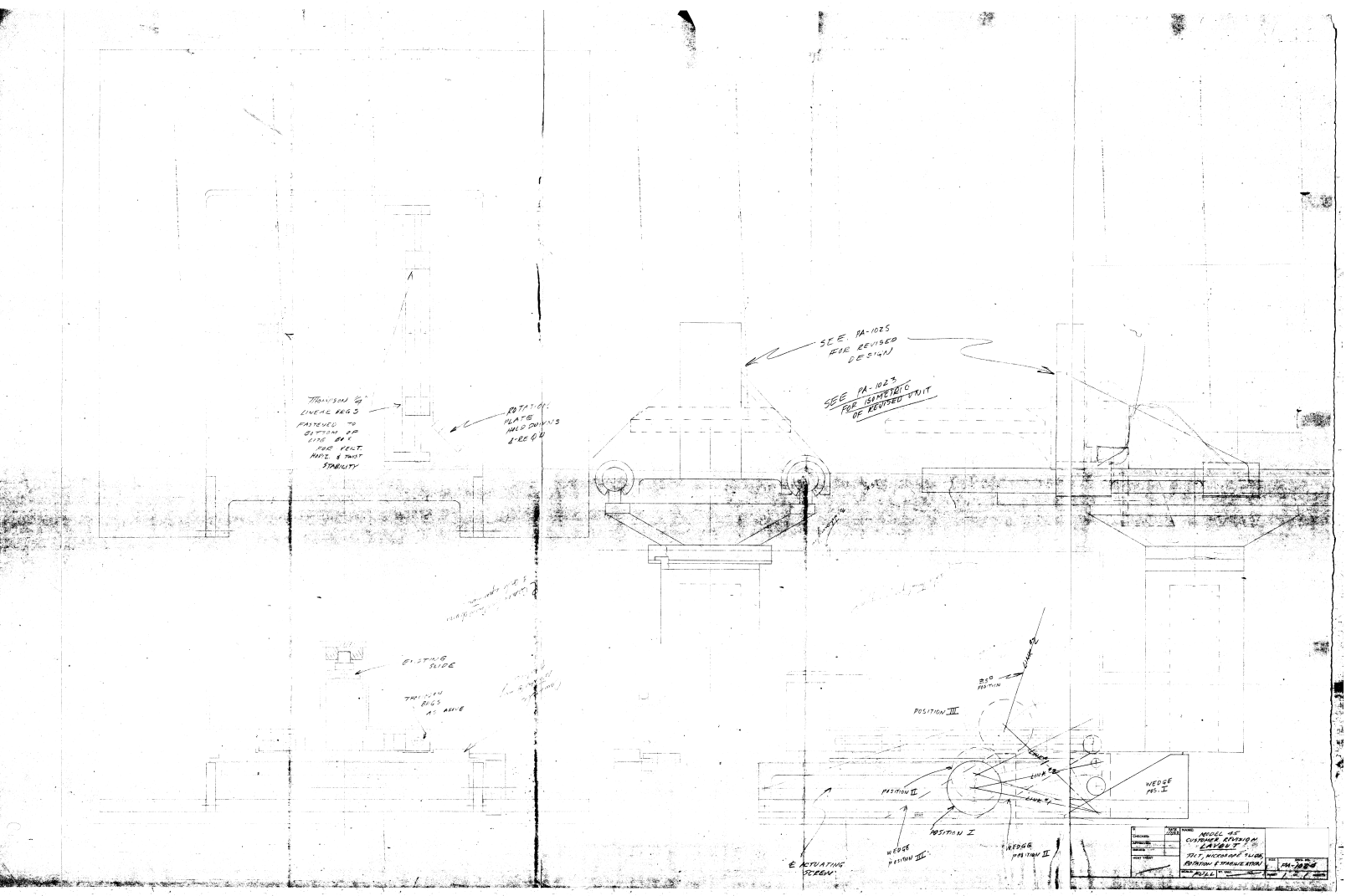
SEE PA-1025 FOR REVISED DESIGN
SEE PA-1024 FOR ISOMETRIC OF REVISED UNIT
THOMPSON 5/8" LINEAR BEARINGS FASTENED TO EXTENSION OF LITE BAR FOR FELT HOLD & THAT STABILITY
ROTATION PLATE HOLD DOWNS 4 REQ'D
EXISTING SLIDE
THOMPSON BUSHING AT ANGLE
POSITION III
POSITION II
POSITION I
WEDGE POS. I
WEDGE POSITION II
WEDGE POSITION III
ACTUATING SCREW
MODEL AC CUTAWAY REVISION LAYOUT
727 F, WIDEBODY FLIGHT POSITION & TRANSLATION
PA-1023

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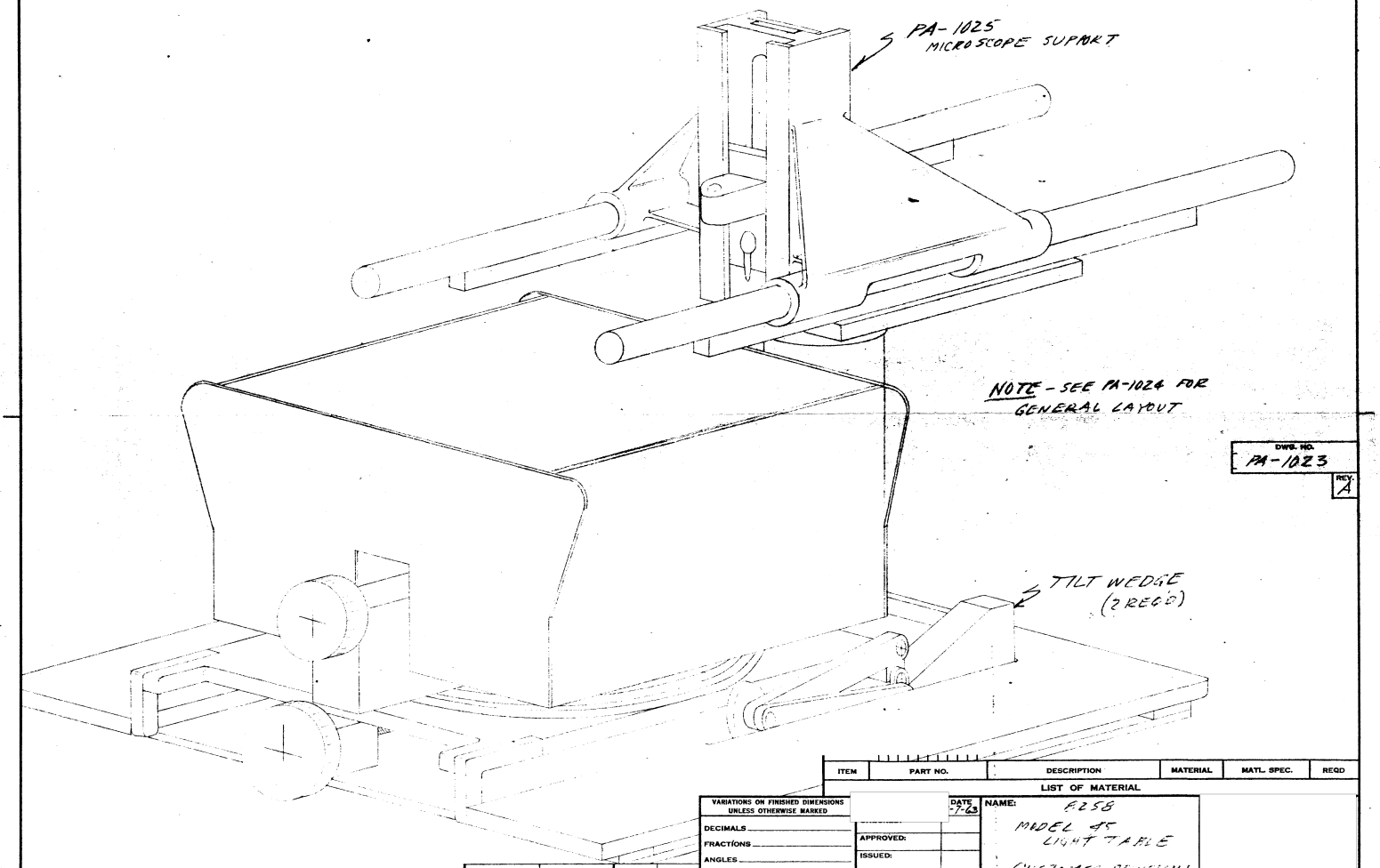
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVAL
A	MICROSCOPE SUPPORT REDESIGNED	4/27/62	

STAT



DWG. NO. PA-1023
REV. A

ITEM	PART NO.	DESCRIPTION	MATERIAL	MATL. SPEC.	REQD

LIST OF MATERIAL

STAT

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		DATE 7-7-63	NAME: R258 MODEL 45 LIGHT TABLE CUSTOMER REVISIONS
DECIMALS		APPROVED:	
FRACTIONS		ISSUED:	
ANGLES			
MATERIAL:		HEAT TREAT	
FINISH:			

NEXT ASSY.	USED ON	NEXT ASSY.	FINAL ASSY.
APPLICATION		QTY. REQD.	

REMOVE ALL BURRS & SHARP EDGES

SCALE:	WT. CALC.	ACT.	C	PA-1023
			SHEET	OF SHEETS

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Light Table

REVISED SPECIFICATIONS AND WORK STATEMENT

TO CONTRACT [redacted] STAT

a. Delete Government furnished equipment (standard Bausch & Lomb stand, Catalog No. 312695 without base) and substitute an [redacted] design slide arrangement with boss to receive Bausch & Lomb rotatable arm, Catalog No. 312690, and zoom power pod (Catalog No. 53-70-02, Model 2). Aeronautical Photographic Experimental Laboratory film reel brackets and [redacted] segmented nylon rollers. STAT STAT

b. Provide a slide between the table and the microscope to quickly position and lock over the viewing area of the light box in accordance with revised Drawings Nos. PA-1023 and PA-1025.

c. Provide a transverse feed screw and slide to move the light box in relation to the microscope a minimum of 1-1/2" each side of the table center line. Provide three bearings stabilizing mechanisms between the bottom of the light box and the rotating plate.

d. Provide a rotational movement of the whole light table on its base through a minimum of 90° in each direction from the nominal position and incorporate a cam locking device or equivalent which will positively lock the rotating plate in any position within the limits of travel.

e. Provide a tilting mechanism using Saginaw motivating screw or equivalent and lever arrangement in accordance with Drawings Nos. PA-1023 and PA-1024. The limits of tilting will be zero to 30°. The mechanisms will be captive in all positions to prevent base falling away from tilting plate if the instrument is lifted by its upper parts.

f. Provide a light table with at least 9-1/2" on a side of lighted surface but no more than 11-1/2" on a side. The lighted surface of the table is to be comprised of an opalescent plastic diffuser and 1/4" plate glass separated by a cork spacer 1/4" or less in width around the perimeter of the glass top. The viewing surface is to be rigidly supported on four sides of the light box. Edges of the plate glass are to be polished sufficiently to prevent scratching film. The glass is to firmly but not permanently be fastened to light box.

g. Design goal for table lighting should be sufficient to view a transparency with 2.0 density comfortably with a standard zoom microscope pod at 60X magnification. The number and arrangement of lights within the box are to be determined through experiment to give even lighting over the entire surface. Switches on voltage regulator devices are to be provided for at least four levels of illumination over the entire viewing surface. Add within the light box beneath the opalescent diffuser two masks, one on the front of the box and one on the rear. These masks are to have a minimum travel beneath the surface of the light box of 8" from the edge of the box.

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h. Provide mounting arrangements and necessary hardware to mount Government-furnished accessory equipment also under Paragraph A as revised. Mounting is to be accomplished at the customer's facility.

i. Height of the table and over-all dimensions of the base are to be held to a minimum commensurate with good engineering design and proper balance in all possible positions expected in an operational environment.

j. Positive locking devices are to be provided at the following points: between the rotating plate and the tilting plate, between the sliding shaft and microscope mounting and between the microscope slide and pivot post.

k. Feet are to be provided under the lower base plate of sufficient size to prevent marring soft top desks and of sufficient height to allow finger room when picking up the table.

1/21/63

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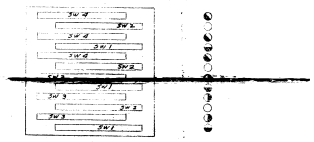
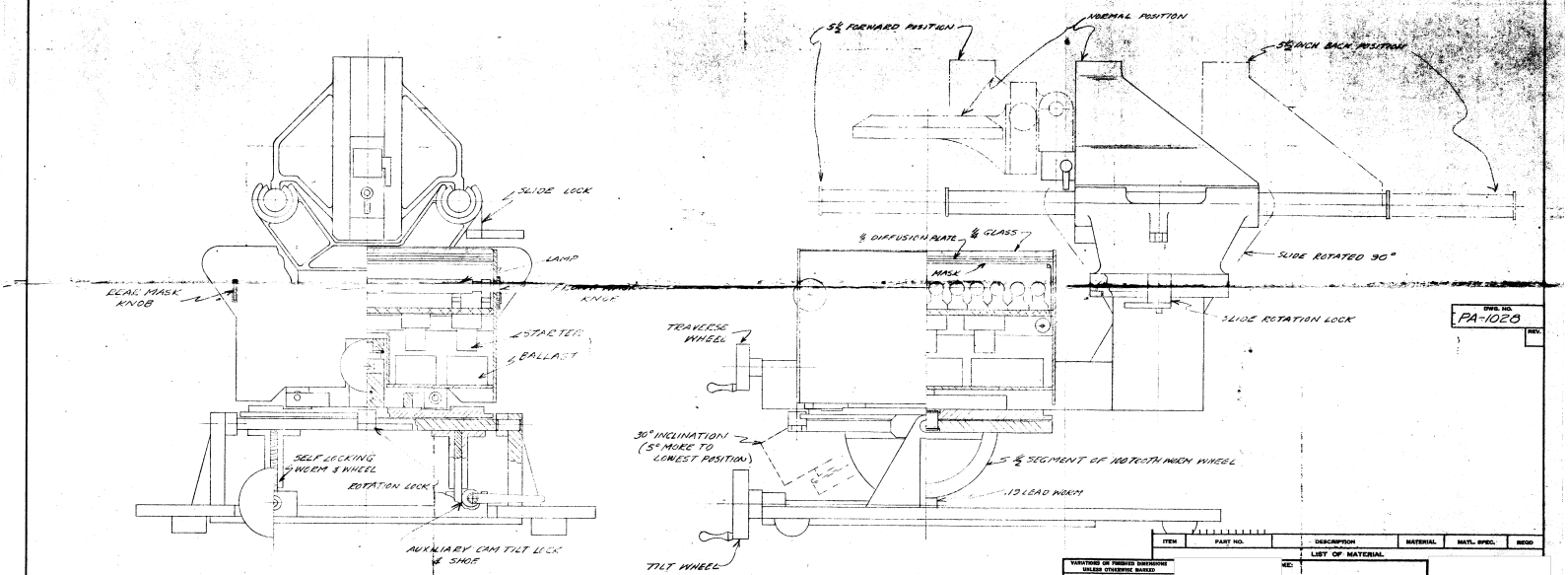
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVAL



SCHEMATIC OF SUGGESTED SWITCHING



DWG. NO. PA-1028 REV.

ITEM	PART NO.	DESCRIPTION	MATERIAL	MATL. SPEC.	REQD

LIST OF MATERIAL

VARIATIONS OF FINISHED DIMENSIONS UNLESS OTHERWISE MARKED	
DECIMALS	
FRACTIONS	
ANGLES	
MATERIAL	

APPROVED:
ISSUED:
HEAT TREAT

REMOVE ALL BURRS & SHARP EDGES

NEXT ASSY.	USED ON	NEXT ASST.	FINAL ASST.	FINISH
APPLICATION		QTY. REQD.		

LIGHT TABLE ASSEMBLY

SCALE: 4 = 1" WT. CALC. ACC.

D PA-1028

SHEET OF SHEETS

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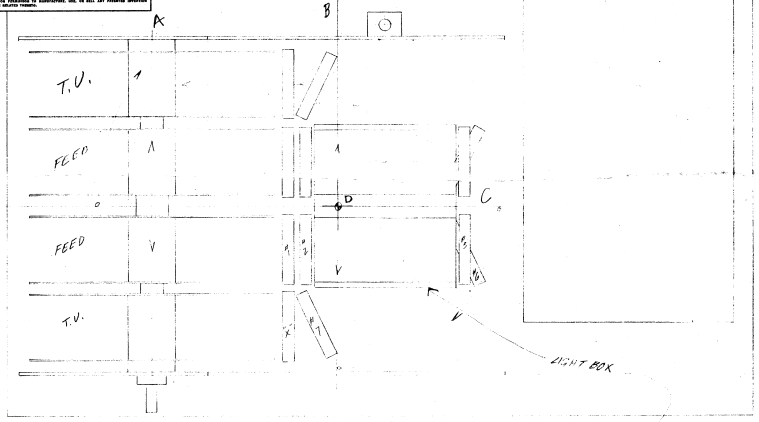
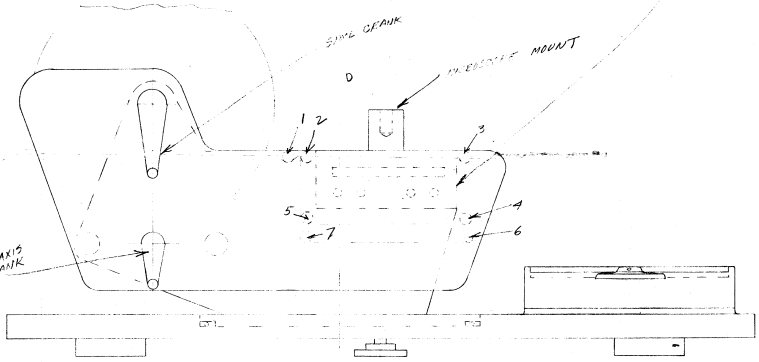
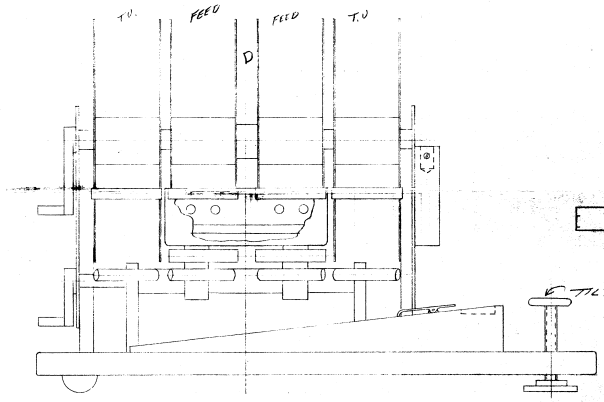
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVAL







ITEM	PART NO.	DESCRIPTION	MATERIAL	MATL. SPEC.	REQD

LIST OF MATERIAL

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED			NAME: TWIN 70 MM TRAVERSE & TILT LIGHT TABLE
DECIMALS	APPROVED:		
FRACTIONS	ISSUED:		
ANGLES	HEAT TREAT		
MATERIAL			
FINISH			

NEXT ASSY.	USED ON	NEXT ASST.	FINAL ASST.
APPLICATION		QTY. REQD.	

REMOVE ALL BURRS & SHARP EDGES

SCALE: WT. CALC. ACT.

D | TASK-1324

SHEET OF SHEETS

STAT

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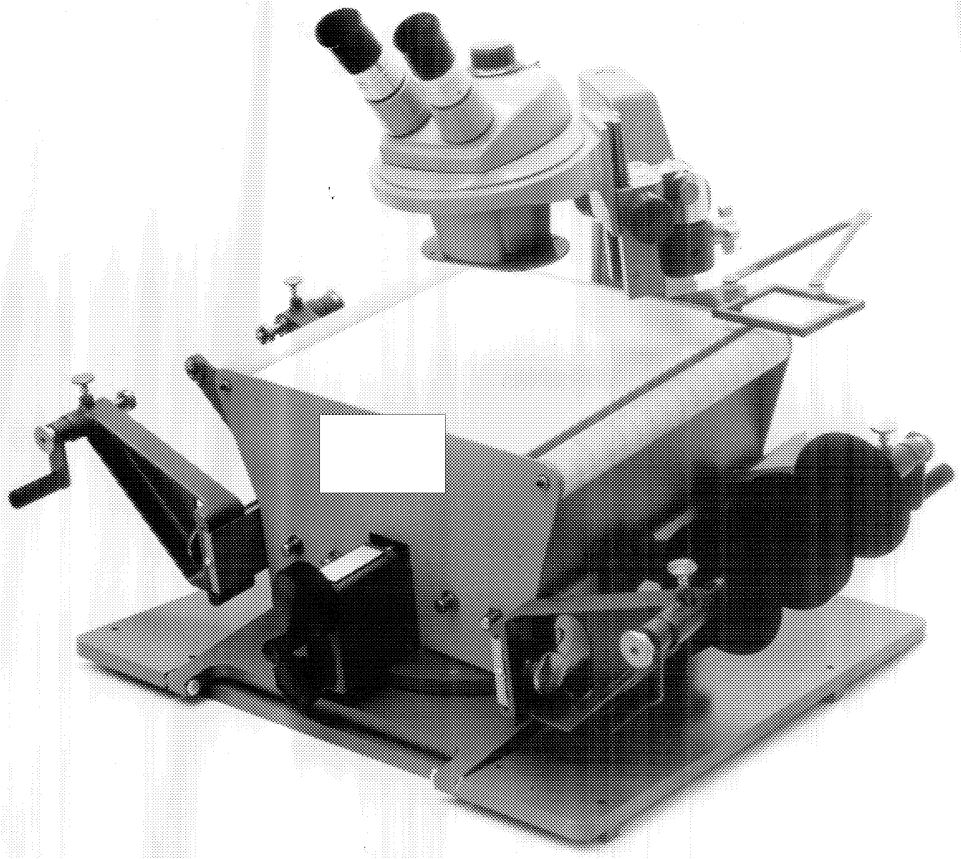

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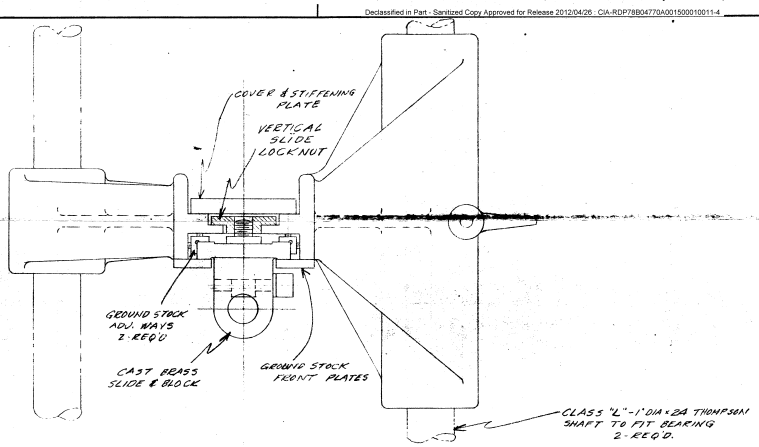
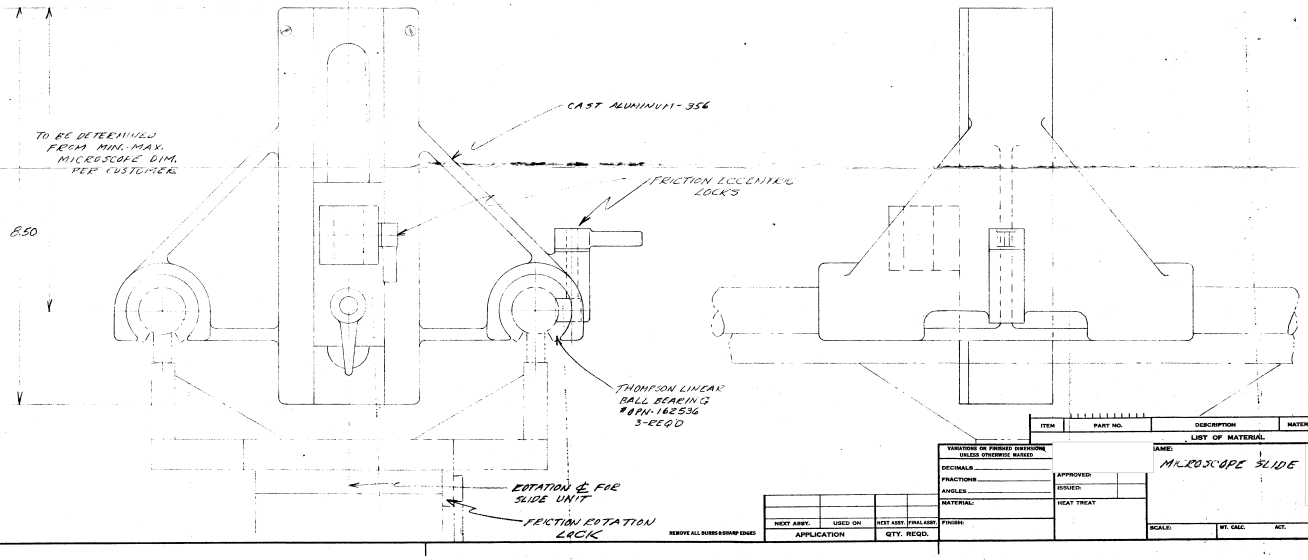
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVAL


COVER & STIFFENING PLATE
VERTICAL SLIDE LOCK NUT
GROUND STOCK ADJ. WAYS 2 REQ'D
CAST BRASS SLIDE & BLOCK
GROUND STOCK FRONT PLATES
CLASS "L" - 1" DIA x 2A THOMPSON SHAFT TO FIT BEARING 2 - REQ'D.


TO BE DETERMINED FROM MIN.-MAX. MICROSCOPE DIM. PER CUSTOMER
8.50
CAST ALUMINUM - 356
FRICTION ECCENTRIC LOCKS
THOMPSON LINEAR BALL BEARING #WM-12253G 3-REQ'D
ROTATION & FOR SLIDE UNIT
FRICTION ROTATION LOCK

ITEM	PART NO.	DESCRIPTION	MATERIAL	MATL. SPEC.	REQD

LIST OF MATERIAL

DWG. NO. PA-1025
REV.

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED:
DECIMALS
FRACTIONS
ANGLES
MATERIAL:
FINISH:
APPROVED:
ISSUED:
HEAT TREAT

NAME: MICROSCOPE SLIDE

NEXT ASSY.	USED ON	NEXT ASSY.	FINAL ASSY.
APPLICATION		QTY. REQD.	

SCALE: WT. CALC. ACT.

D PA-1025

SHEET OF SHEETS

REMOVE ALL BURRS & SHARP EDGES

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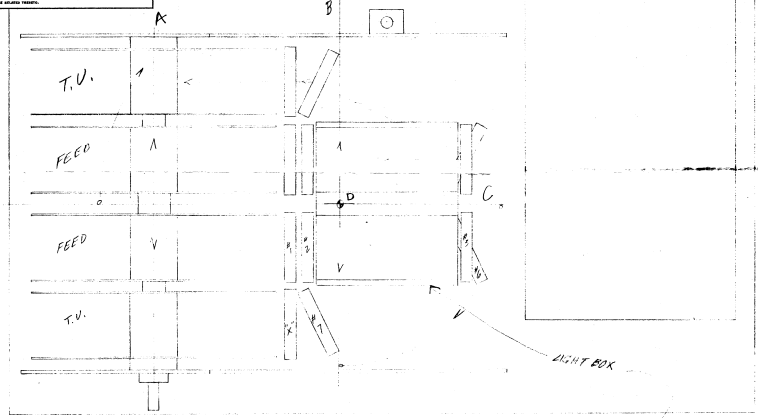
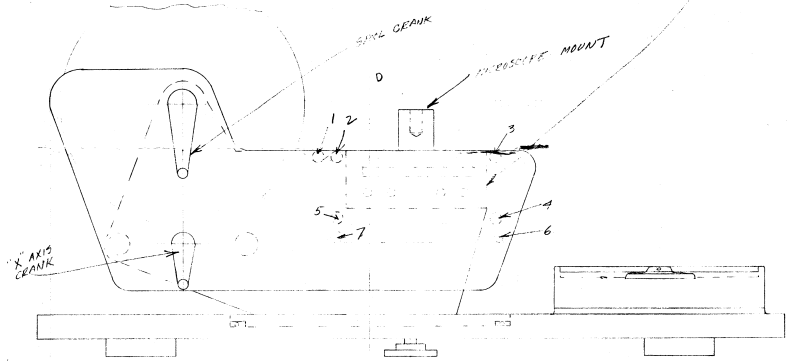
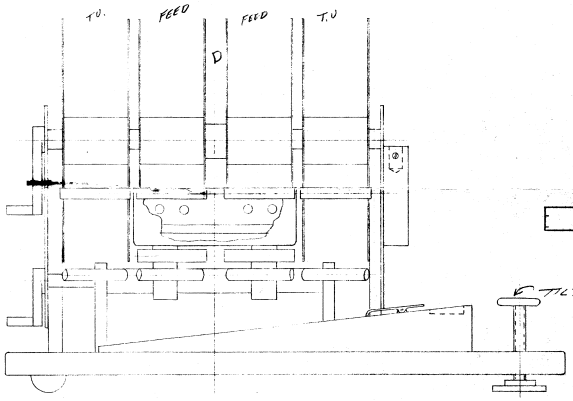
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVAL







ITEM	PART NO.	DESCRIPTION	MATERIAL	MATL. SPEC.	REQD

LIST OF MATERIAL

VARIATIONS OR FINISHES DIMENSIONS UNLESS OTHERWISE MARKED	
DECIMALS	APPROVED:
FRACTIONS	ISSUED:
ANGLES	HEAT TREAT
MATERIAL:	
FINISH:	

NAME: TWIN 70 MM TRAVERSE & TILT LIGHT TABLE

NEXT ASSY.	USED ON	NEXT ASST.	FINAL ASSY.
APPLICATION		QTY. REQD.	

REMOVE ALL BURRS & SHARP EDGES

SCALE: WT. CALC. ACT.

DWG. NO. D PASK-1826

REV.

SHEET OF SHEETS

STAT

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REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVAL

—DESCRIPTION—

MODEL 45 LIGHT TABLE IS ADAPTABLE TO [redacted] (or equiv.) STEREO-ZOOM MICROSCOPE, FUNCTIONING AS A UNIT IN PHOTO-INTERPRETIVE VIEWING OF TWIN PATHS OF 70mm AERIAL FILM.

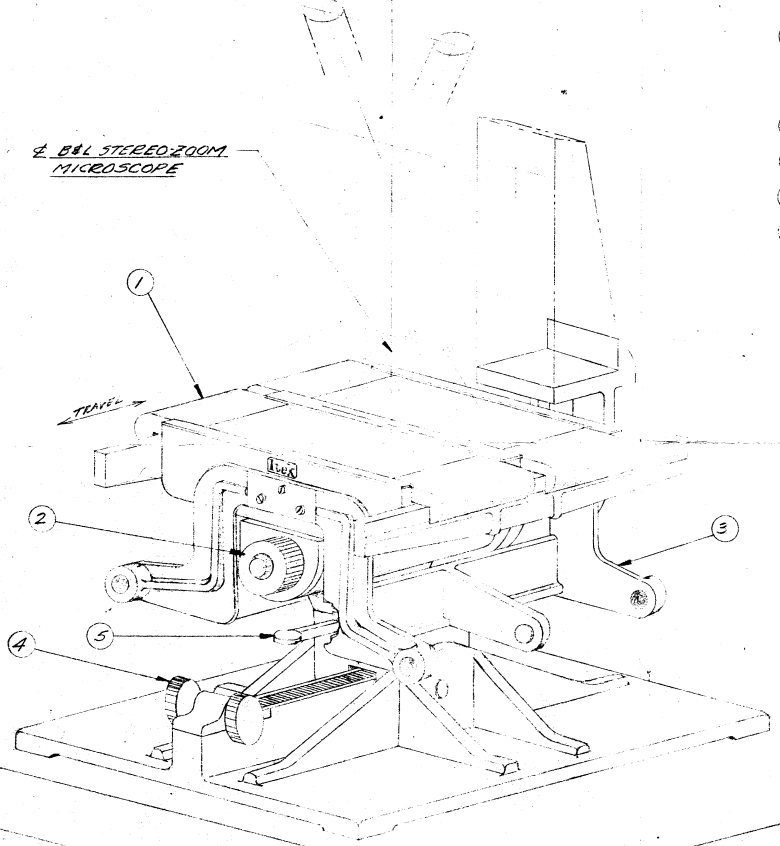
—SPECIFICATIONS—

1. -LIGHT BOX MOVES TRANSVERSELY 1½ INCHES EITHER SIDE OF MICROSCOPE CENTERLINE.— INDEPENDENTLY LIT FLUORESCENT LIGHT SOURCES ARE PROVIDED FOR EACH FILM PATH.—FILM HOLD-DOWN STRIPS ARE PROVIDED FOR EACH FILM PATH.— POLISHED FILM APPROACH SLIDES OR GUIDE ROLLS ARE PROVIDED.
2. -TRAVERSE FEED KNOB MOVES LIGHT BOX ⅛ INCH PER TURN WITH MAXIMUM TRAVEL OF 3 INCHES.
3. - FILM SPOOL BRACKETS, EQUIPPED WITH FRICTION HOLD-BACKS, TRAVEL WITH LIGHT BOX.
4. - TILT CONTROL KNOBS WITH INTEGRAL FRICTION BRAKING PROVIDE UP TO 30° INCLINATION OF LIGHT BOX TOWARD OPERATOR.
5. - ROTATION LOCK PERMITS LIGHT BOX, SPOOL & MICROSCOPE ROTATION 90° IN EITHER DIRECTION FROM POSITION SHOWN WITH BASE AND TILT CONTROL REMAINING STATIONARY.- THIS FEATURE PERMITS LONGITUDINAL OR TRANSVERSE FILM VIEWING IN EITHER FLAT OR INCLINED PLANES.

—DIMENSIONS—

OVERALL DIMENSIONS OF COMPLETE LIGHT TABLE (WITHOUT MICROSCOPE):-

WIDTH ——— 10 INCHES
DEPTH ——— 12 INCHES
HEIGHT ——— 10⅛ INCHES



DWG. NO. FASK-1308
REV.

G2 REQD.	G1 REQD.	ITEM	PART NO.	DESCRIPTION	MATERIAL	MATL. SPEC.	UNIT WT.

LIST OF MATERIAL

VARIATIONS ON FINISHED DIMENSIONS UNLESS OTHERWISE MARKED		
BASIC	FRACTION	DECIMAL
UP TO 6	± 1/64	± .005
6 TO 24	± 1/32	± .010
ABOVE 24	± 1/16	± .015
ANGULAR DIMENSIONS: ± 1/2°		

CHECKED:
APPROVED:
ISSUED:
MATERIAL:
FINISH:
HEAT TREAT:
✓ SURFACE GRAIN UNLESS OTHERWISE SPECIFIED

NAME: MODEL 45 MULTI-MOTION TWIN 70mm LIGHT TABLE

SIZE: C | DWG. NO. FASK-1308

SCALE: HALF | WT. CALC. | ACT. | SHEET | OF | SHEETS

REMOVE ALL BURRS & SHARP EDGES
DIMENSIONS ARE IN INCHES AND INCLUDE THICKNESS OF PLATING UNLESS OTHERWISE SPECIFIED.

NEXT ASSY.	USED ON	NEXT ASSY.	FINAL ASSY.
APPLICATION		QTY. REQD.	

A. T. J. CO. 1-61

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